### Welcome

#### The meeting with begin shortly, in the meantime please,

- Keep your phone muted during the meeting.
- If you have a question/comment during the meeting type it in the chat box and it will be read and addressed at the end of each presentation
- During the Call to public people will have the option to speak to the Council.
- If you experience any technical difficulties, please contact ADWR Help Desk at 602-771-8444 or tickets@azwater.gov



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# Tucson AMA GUAC February 22, 2022



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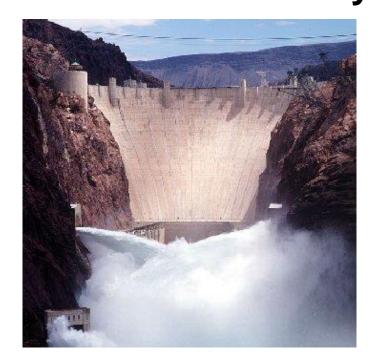
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# COLORADO RIVER BASIN STATUS UPDATE

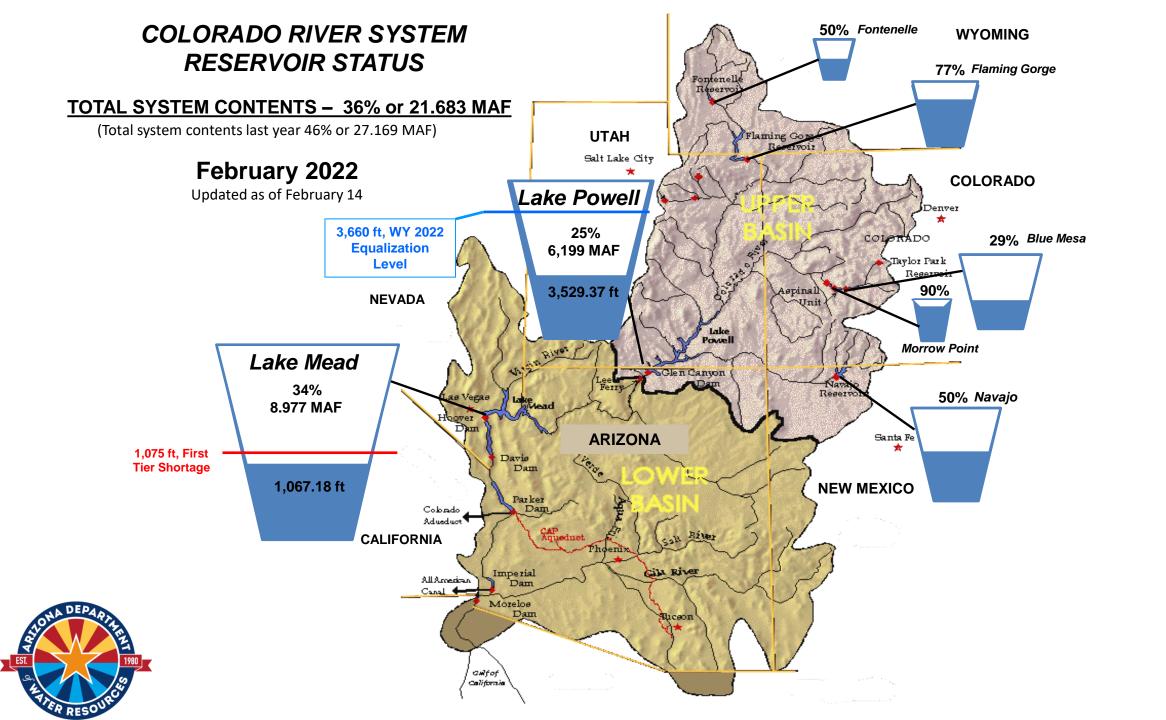
Presented to:

Groundwater Users Advisory Council
Tucson Active Management Area
February 22, 2022





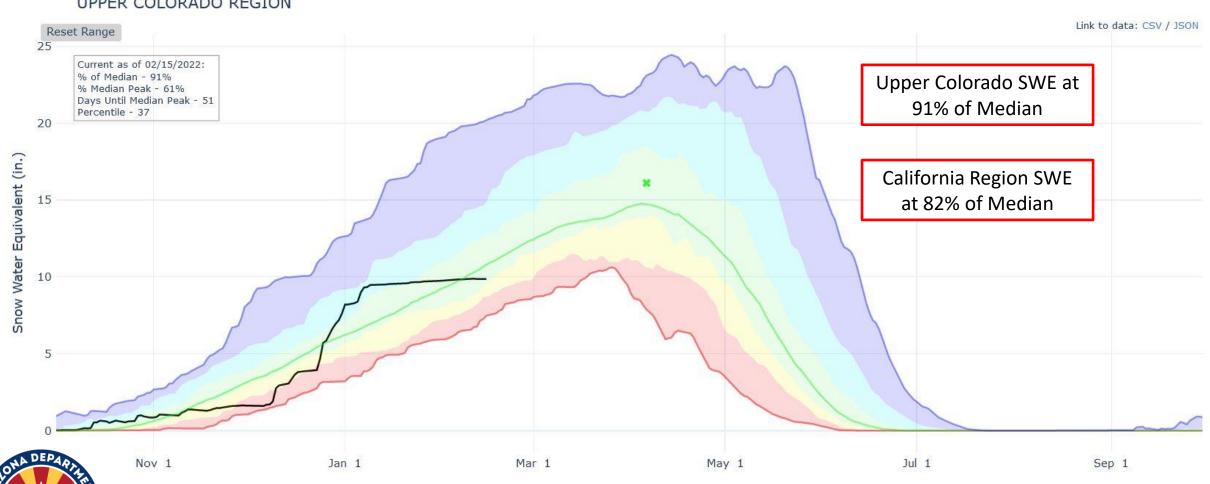




# **Snow Water Equivalent**

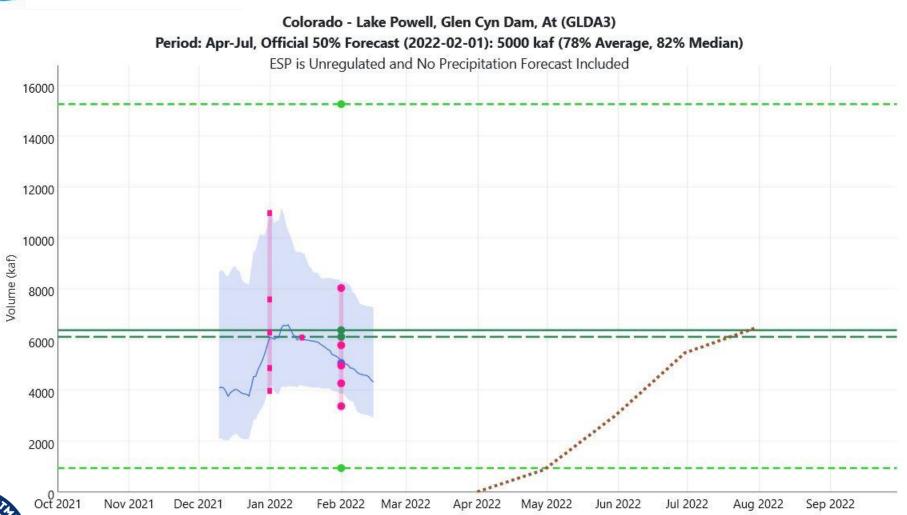
Conditions as of Feb 15, 2022





#### Colorado Basin River Forecast Center National Weather Service

## Runoff Forecast



2022/02/01:

Max 1984: 15285.64

Min 2002: 963.96

Average: 6390

Median: 6130

**ESP**: 5100

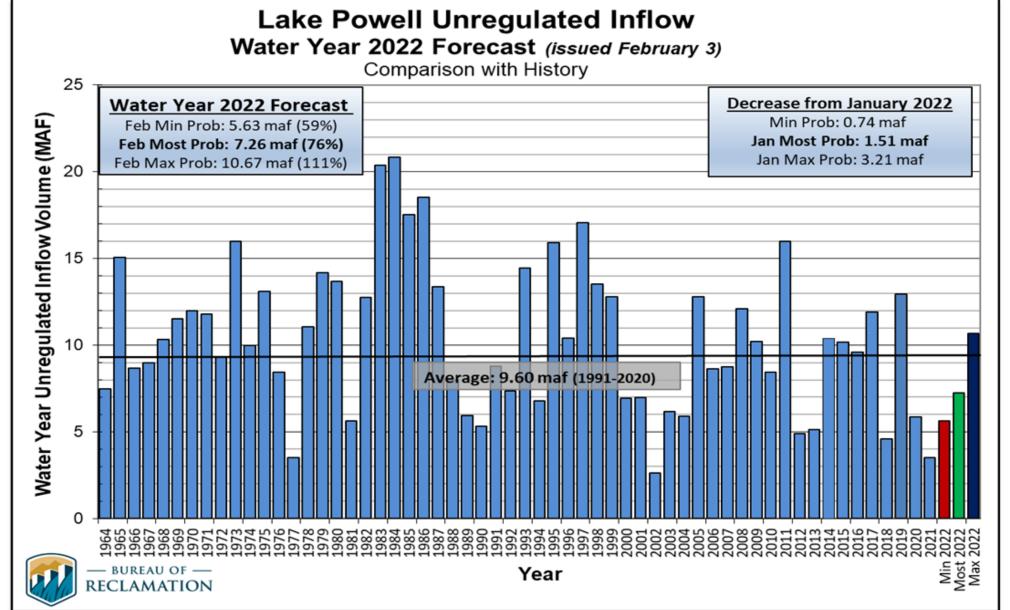
Official 10: 8050

Official 30: 5800

Official 50: 5000

Official 70: 4300

Official 90: 3400





#### Lower Basin Side Inflows – WY/CY 2021<sup>1,2</sup> Intervening Flow from Glen Canyon to Hoover Dam

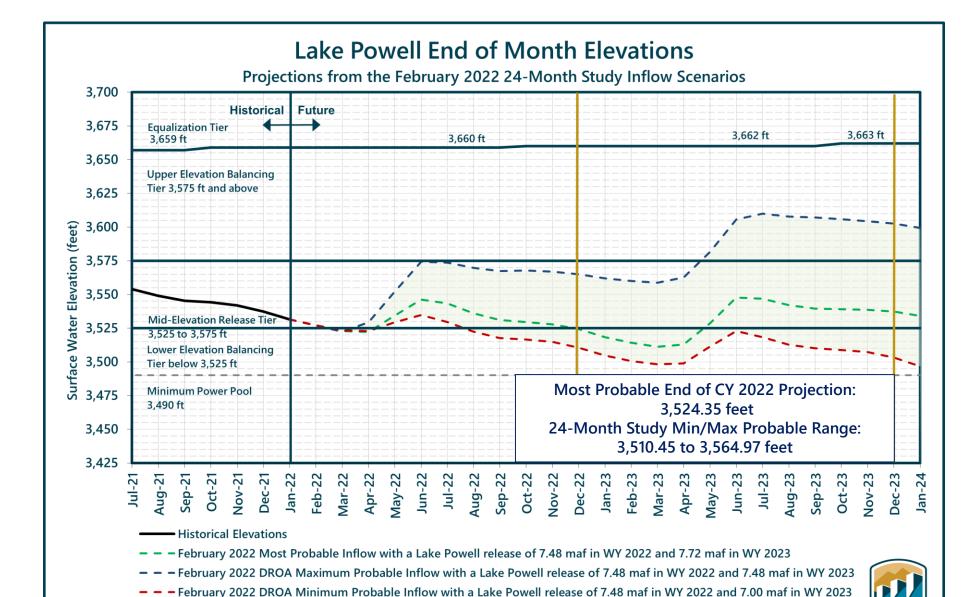
Mon	th in WY/CY 2021	5-Year Average Intervening Flow (kaf)	Observed Intervening Flow (kaf)	Observed Intervening Flow (% of Average)	Difference From 5-Year Average (kaf)
	October 2020	58	35	60%	-23
	November 2020	71	56	79%	-15
	December 2020	67	59	88%	-8
	January 2021	95	72	75%	-23
	February 2021	97	55	57%	-42
	March 2021	111	33	30%	-78
ed	April 2021	81	36	45%	-45
Observed	May 2021	50	9	19%	-41
go	June 2021	29	-31	-107%	-60
	July 2021	64	95	148%	31
	August 2021	81	89	110%	8
	September 2021	71	50	70%	-21
3	October 2021	58	80	138%	22
9	November 2021	71	42	60%	-29
	December 2021	67	65	97%	-2
	WY 2021 Totals	876	558	64%	-319
	CY 2021 Totals	876	596	68%	-281

<sup>&</sup>lt;sup>1</sup> Values were computed with the LC's gain-loss model for the most recent 24-month study.





<sup>&</sup>lt;sup>2</sup> Percents of average are based on the 5-year mean from 2016-2020.

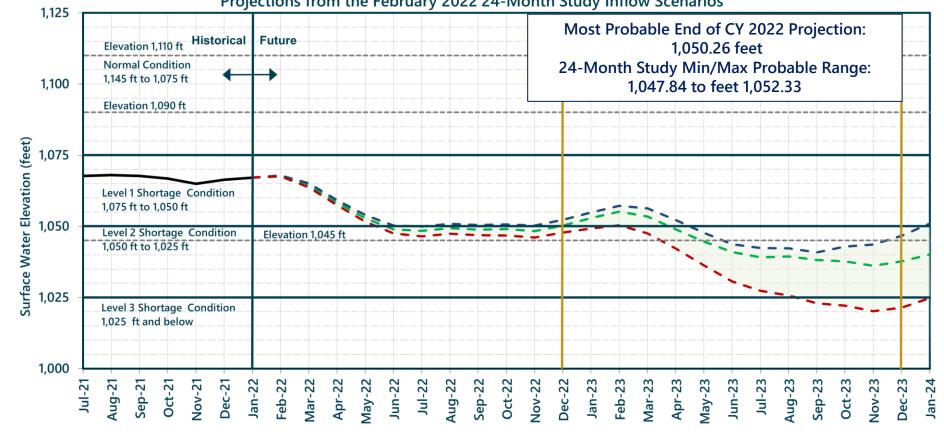




The Drought Response Operations Agreement (DROA) is available online at: https://www.usbr.gov/dcp/finaldocs.html.

#### Lake Mead End of Month Elevations







- February 2022 Most Probable Inflow with a Lake Powell release of 7.48 maf in WY 2022 and 7.72 maf in WY 2023
- - February 2022 DROA Maximum Probable Inflow with a Lake Powell release of 7.48 maf in WY 2022 and 7.48 maf in WY 2023
- - February 2022 DROA Minimum Probable Inflow with a Lake Powell release of 7.48 maf in WY 2022 and 7.00 maf in WY 2023

The Drought Response Operations Agreement (DROA) is available online at: https://www.usbr.gov/dcp/finaldocs.html.





#### Upper Basin – Lake Powell Percent of Traces with Event or System Condition

Results from January 2022 CRMMS-ESP/CRSS with 1988-2019 Resampled Hydrology (values in percent)

Event or System Condition  Equalization Tier (Powell ≥ Equalization [EQ] Elevation)		<b>2023</b> 0	2024	<b>2025</b>	<b>2026</b> 6
Equalization – annual release = 8.23 maf		0	0	0	0
Upper Elevation Balancing Tier (Powell < EQ Elevation and ≥ 3,575 ft)		10	30	35	34
Upper Elevation Balancing – annual release > 8.23 maf		10	29	34	31
Upper Elevation Balancing – annual release = 8.23 maf		< 1	<1	< 1	3
Upper Elevation Balancing – annual release < 8.23 maf	0	0	< 1	0	< 1
Mid-Elevation Release Tier (Powell < 3,575 and ≥ 3,525 ft)		60	42	34	33
Mid-Elevation Release – annual release = 8.23 maf	0	0	0	7	6
Mid-Elevation Release – annual release = 7.48 maf		60	42	26	26
Lower Elevation Balancing Tier (Powell < 3,525 ft)		30	27	28	28
Lower Elevation Balancing – annual release > 8.23 maf	0	9	10	9	9
Lower Elevation Balancing – annual release < 8.23 maf	0	21	18	19	19

#### Notes:

<sup>&</sup>lt;sup>1</sup> Modeled operations include the 2007 Interim Guidelines, Lower Basin Drought Contingency Plan, and Minute 323, including the Binational Water Scarcity Contingency Plan.

<sup>&</sup>lt;sup>2</sup> Reservoir conditions for 2022 were simulated using the January 2022 CRMMS in ensemble mode using the CBRFC unregulated inflow forecast ensemble dated January 5, 2022 (CRMMS ESP).

<sup>&</sup>lt;sup>3</sup> Each of the 30 initial conditions from CRMMS ESP were coupled with 32 hydrologic inflow sequences from the Stress Test Hydrology that resamples the observed natural flow record from 1988-2019 for a total of 960 traces analyzed.

<sup>&</sup>lt;sup>4</sup> Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

<sup>&</sup>lt;sup>5</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.

# Lower Basin – Lake Mead Percent of Traces with Event or System Condition

Results from January 2022 CRMMS-ESP/CRSS with 1988-2019 Resampled Hydrology (values in percent)

Event or System Condition		2023	2024	2025	2026
Surplus Condition – any amount (Mead ≥ 1,145 ft)		0	0	0	0
Surplus – Flood Control	0	0	0	0	0
Normal or ICS Surplus Condition (Mead < 1,145 and > 1,075 ft)		3	5	4	7
Recovery of DCP ICS / Mexico's Water Savings (Mead >/≥ 1,110 ft)	0	0	0	<1	<1
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,090 and > 1,075 ft)	0	3	5	3	4
Shortage Condition – any amount (Mead ≤ 1,075 ft)		97	95	96	93
Shortage / Reduction – 1st level (Mead ≤ 1,075 and ≥ 1,050)	100	80	22	27	23
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,075 and > 1,050 ft)	100	80	22	27	23
Shortage / Reduction – 2 <sup>nd</sup> level (Mead < 1,050 and ≥ 1,025)	0	17	72	40	35
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	17	7	8	6
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,045 and > 1,040 ft)	0	0	19	6	6
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,040 and > 1,035 ft)	0	0	21	7	6
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,035 and > 1,030 ft)	0	0	18	9	8
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,030 and ≥/> 1,025 ft)	0	0	7	10	9
Shortage / Reduction – 3 <sup>rd</sup> level (Mead < 1,025)		0	<1	30	35
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,025 ft)</td <td>0</td> <td>0</td> <td>&lt;1</td> <td>30</td> <td>35</td>	0	0	<1	30	35

#### Notes:

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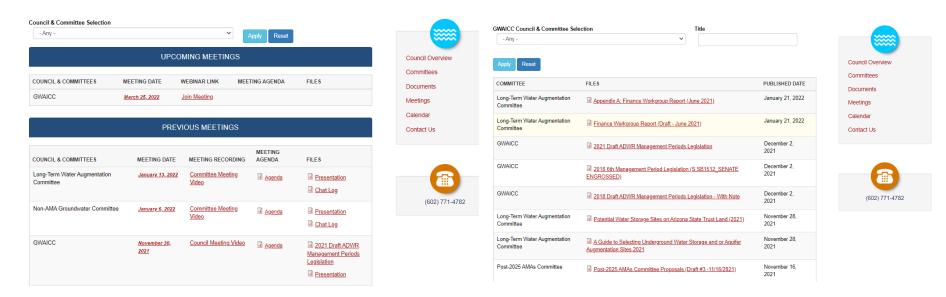
#### **Arizona Department of Water Resources**

# Governor's Water Augmentation, Innovation, and Conservation Council (Council) Updates



Jenna Norris Council Coordinator Arizona Department of Water Resources

# GOVERNOR'S WATER AUGMENTATION, INNOVATION AND CONSERVATION COUNCIL



Link to Governor's Water Council Webpage: <a href="https://new.azwater.gov/gwaicc">https://new.azwater.gov/gwaicc</a>

## **Council Updates**

#### Last met on November 30, 2021 (Meeting Recording)

- I. Welcome and Introductions
- II. Update on 1,030' Consultation Council Chair, ADWR Director Tom Buschatzke
- III. Follow-up to Discussion of Additional Management Periods Council Chair, ADWR Director Tom Buschatzke
- IV. Committee Updates
  - a. Post-2025 AMAs Committee
  - b. Non-AMA Groundwater Committee
  - c. Long-Term Water Augmentation Committee
- V. Council Website Updates Jenna Norris, ADWR Governor's Water Council Coordinator
- VI. Closing Remarks
- VII. Next Meeting

March 25, 2022, 10am-noon

VIII. Adjournment



# Non-AMA Groundwater Committee Updates

#### January 6<sup>th</sup>, 2022, Meeting Recording

- \* Further Discussion on Water Management Strategies
- \* Overview of Available Voluntary Options and Tools to Address Water Availability

#### October 14<sup>th</sup>, 2021, Meeting Recording

- \* 2021 Legislative Success
- Enhanced Aquifer Recharge & Stormwater
   Harvesting
  - Overview of Potential for Enhanced/Informed Aquifer Recharge -Keith Nelson, ADWR
  - Efforts to Improve the Aquifer
     Conditions in the Hualapai Valley Basin Nick Hont, Mohave County
- \* Discussion of Committee Goals



# Long-Term Water Augmentation Committee Updates

#### January 13<sup>th</sup>, 2022, Meeting Recording

- \* Weather Modification and Cloud Control
  - Overview of State Statutes Jennifer Heim & Catherine Riedel, ADWR
  - Overview of Research Efforts & Active Projects James Walter, SRP
- \* Development of Long-Term Water Augmentation Plan



# Post-2025 AMAs Committee Updates

#### October 5<sup>th</sup>, 2021, Meeting Recording

- \* Prescott AMA Exempt Well Study Group Concepts – Ron Doba, NAMWUA
  - Draft Prescott AMA Exempt Well Study Group Recommendations (<u>Link</u>)
- \* Discussion of Concepts to Address Prescott AMA Exempt Wells

# October 27<sup>th</sup>, 2021, Meeting Recording November 9<sup>th</sup>, 2021, Meeting Recording

- \* Review and Discuss Updated 2021 Package of Proposals
  - Post-2025 AMAs Committee
     Proposals (Link)



# Thank you!

Jenna Norris
Council Coordinator

jnorris@azwater.gov

Office Phone: 602-771-5262

Nadene Hubbard Council Facilitator nhubbard@azwater.gov

Office Phone: 602-771-8773

John Riggins
Statewide Planning Manager

jrriggins@azwater.gov

Office Phone: 602-771-4782



ADWR Website: https://new.azwater.gov/

ADWR Phone: 602-771-8500

Link to ADWR Contacts: https://new.azwater.gov/adwr/contact-us

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# Fifth Management Plan



Tucson AMA GUAC Meeting February 22, 2022

Natalie Mast AMA Director – Planning

## Contents

- a. Draft 5th Management Plan Presentation Natalie Mast
- b. AMA Sector Data Dashboards AMA Staff
- c. Mining Proposal Sandy Fabritz
- d. Draft 5th Management Plan Presentation Continued: Next Steps Natalie Mast
- e. GUAC Discussion & Recommendation to Director- Council



# Groundwater Management Act (1980)

#### **Created Arizona Department of Water Resources**

#### **Goals of the Act**

- Control severe groundwater depletion
- Provide the means for allocating Arizona's limited groundwater resources
- Improve Arizona's groundwater supplies through conservation and development of additional water

supplies





# Management Plans

A.R.S. § 45-563 (A)

"The director shall develop a management plan for each initial active management area for each of five management periods... and shall adopt the plans only after public hearings... The plans shall include a continuing mandatory conservation program... designed to achieve reductions in withdrawals of groundwater."



# Estimated 5MP Timeline

new.azwater.gov/5MP

# 2019-2020: Development

- Work Group,
   Subgroups, &
   Stakeholder Outreach
- Data Analysis
- Develop <u>Concepts</u> to Increase Conservation
  - ➤ Update Existing Programs
  - Design New Programs

#### 2021: Drafting

- Build out <u>Concepts</u> developed in previous phase
  - ➤ Regulatory Language
  - Feedback from GUACs/AMAs re: Customization & Implementation
- Draft Narrative & Background
- Develop Data Tools

# 2022: Adoption

- Publication of initial drafts
- Presentation to GUACs for recommendations
- Promulgation processes
  - ➤ Hearing & Public Comment
  - ➤ Findings & Adoption
  - Noticing of Conservation Requirements



# Draft Fifth Management Plans

https://new.azwater.gov/ama/management-plans



Management Plans for each active management area reflect the evolution of the Groundwater Management Code, moving Arizona toward its long-term water management goals. The plans include mandatory conservation programs for all persons withdrawing, distributing or receiving groundwater designed to achieve reductions in withdrawals of groundwater.

A series of five management plans prepared beginning in 1980 and running through 2025 contain progressively more rigorous management requirements for agricultural, municipal and industrial water users.

#### Live query for Supplement 1

In 2022, as a result of the discussions of the 5MP Safe-Yield Technical Subgroup, ADWR published the Overdraft. Safe-Yield, and the Management Goals in the Arizona's Active Management Areas Report, a detailed interpretation and analysis of safe-yield. This comprehensive report includes a description of the aspects of safe-yield, how ADWR analyzes those aspects, and the status of each AMA with regards to its management goal. Although the management goal is not safe-yield in every AMA, the applicability of this analysis to other management goals is discussed in the report. The Overdraft Data Dashboard was developed as a supplement to the report, to support data transparency efforts of the department, and to allow an interactive method to stakeholders to explore the associated data.

#### MANAGEMENT PLANS

First Second Third Fourth Fifth

#### FIFTH MANAGEMENT PLAN 2020-2025

The provisions of the 4MP will be in effect until the Fifth Management Plan is effective, for the period 2020-2025.

The Fifth Management Plan drafts below are available for informal comments. Comments may be sent to managementplans@azwater.gov until February 28, 2022.

PHOENIX AMA

ΛA

Phoenix AMA

Pinal AMA

Prescott AMA

Santa Cruz AMA

Tuccon AMA

AMA Conservation

AMA Data

AMA Queries and Reports

Groundwater Rights Map

GUAC Meetings

BMP Advisory Committee Meetings

Management Plans

Agricultural Program

Industrial Program

Municipal Program

Online Annual Reports

Water Management Assistance Program

FAQs

Contact Us



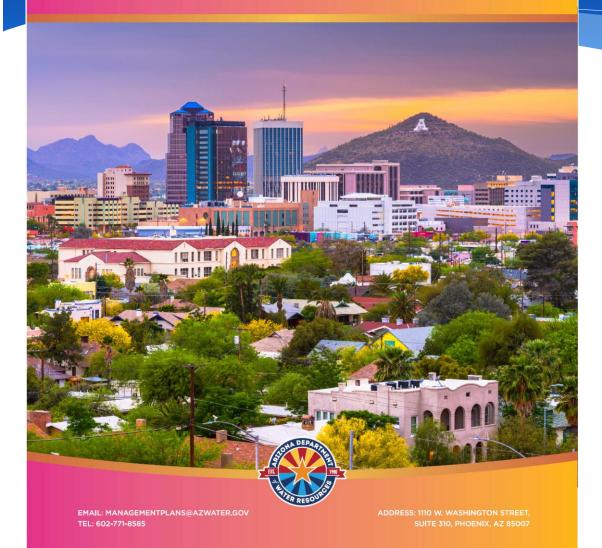
- \* Management Plans webpage includes:
  - \* Draft 5MPs for each AMA
  - Low Water Use and Drought Tolerant Plants
     Lists
  - \* Report: "Overdraft, Safe-Yield, and the Management Goals in Arizona's Active Management Areas"
  - \* Link to Supplement I Live Query





# FIFTH MANAGEMENT PLAN

TUCSON ACTIVE MANAGEMENT AREA



# Draft Tucson AMA 5MP

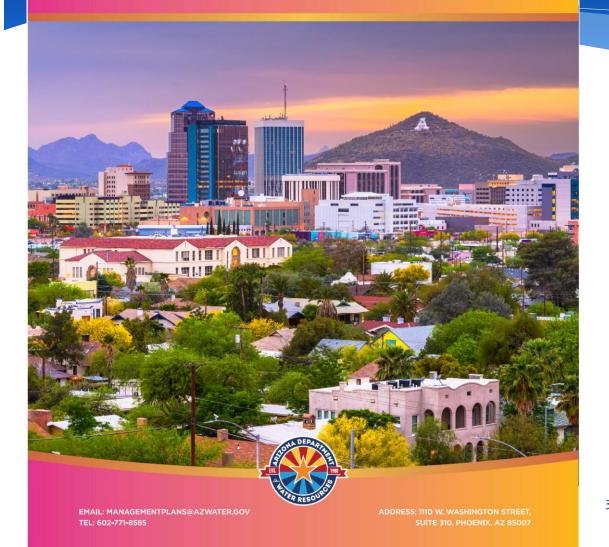
https://new.azwater.gov/ama/management-plans

#### **Contents:**

- o. Executive Summary
- 1. Hydrology
- 2. Supply and Demand
- 3. Underground Water Storage, Savings, and Replenishment
- 4. Agricultural
- 5. Municipal
- 6. Industrial
- 7. Implementation, Compliance, and Support
- 8. Water Strategy

# FIFTH MANAGEMENT PLAN

TUCSON ACTIVE MANAGEMENT AREA



# Draft Tucson AMA 5MP

https://new.azwater.gov/ama/management-plans

#### **Supplemental Materials:**

- \* AMA Data Page Dashboards
- \* Report and Dashboard: "Overdraft, Safe-Yield, and the Management Goals in Arizona's Active Management Areas"
- \* Low Water Use and Drought Tolerant Plants List
- \* Agricultural Supplement I



### 5MP Concepts Webpage

https://new.azwater.gov/5MP/plans-concepts

ABOUT US -

HOW DO 12

ADWD NEWS



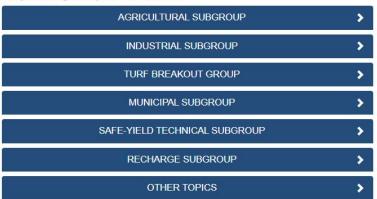
PROGRAMS

ONLINE SERVICES - CONTACT US -



#### 5TH MANAGEMENT PLANS CONCEPTS

Concepts and stakeholder comments related to the development of the 5MP conservation programs are available below. The draft 5MP for each AMA can be found on the <a href="Management-Plans page">Management Plans page</a> under the "Fifth" dropdown. If you would like to submit a comment regarding these concepts, please email us at <a href="management-plans@azwater.gov">management-plans@azwater.gov</a> by February 28, 2022.







#### **Contents:**

- \* 5MP proposals
- \* 5MP Work Group meeting summaries and links
- \* Stakeholder comments



### Major Changes - Programs

#### Recharge (Chapter 3)

\* Added language to allow clarification of definition of "shallow depth to water conditions"

#### Agricultural (Chapter 4)

- \* Base Program: 5% reduction of top 25% of water duties pursuant to A.R.S. § 45-568(A)(2)
- \* BMP Program: Updated BMP list and minimum points requirements with recommendations from the BMP Advisory Committee
- \* Integrated Farm Program: New alternative option allowing an owner/operator to combine the allotments of multiple IGFRs, with a 5% "cut to the aquifer"

### Major Changes - Programs

#### **Municipal (Chapter 5)**

- \* GPCD Program: Updated requirement calculation method and flex range
- \* NPCC Program: Made significant updates to BMP list in collaboration with 5MP Municipal Subgroup; added an additional tier; added minimum number of categories for each tier; updated points requirements

#### **Industrial (Chapter 6)**

- \* Power Plants: Added language allowing a modification to cycles of concentration requirements if blowdown water will be put to a beneficial reuse
- \* Golf Courses: Overhauled allotment calculation method to better reflect actual practices and recent consumptive use analyses
- \* Non-Golf Turf Facilities: Split into two categories: High and Low water use landscapes, where landscapes with ≤30% water intensive landscape use a more generous allotment calculation
- \* Mining: Proposal will be discussed today not currently included in the draft



### Major Changes – Structure & Content

- \* Shifted data online
  - \* Transparency
  - \* Ongoing updates
- \* Added Executive Summary
  - \* Assists with quick reference to information throughout the 5MP
- \* Streamlined
  - \* Uses references for more detailed information
- \* Added Engagement Information
  - \* Increased emphasis on opportunities for contact and engagement



#### AMA Sector Data Dashboards

Amanda Long – AMA Planning Manager Brad Niska– Industrial Data Specialist Madison Moreno– Municipal Data Specialist

https://new.azwater.gov/ama/ama-data



# Alternative Mining Conservation Program Sandy Fabritz



### Next Steps Natalie Mast



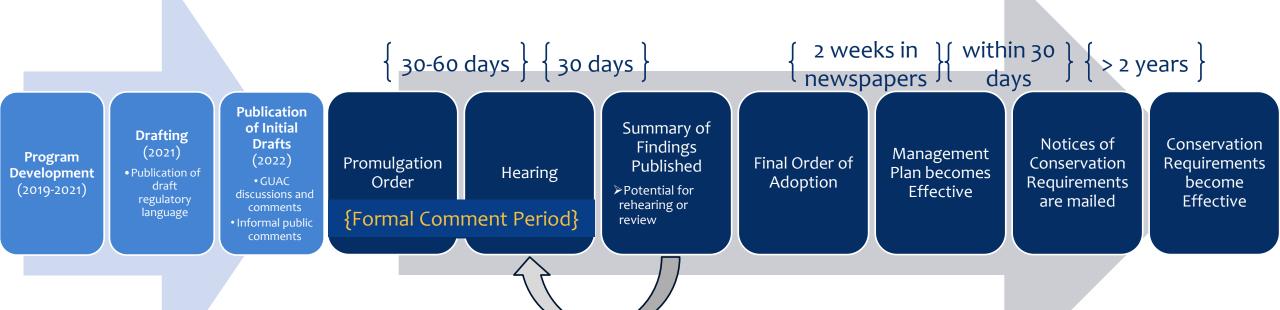
### A.R.S. § 45-421(1)

"The groundwater users advisory council shall:

- 1. Advise the area director for the active management area, make recommendations on groundwater management programs and policies for the active management area and comment to the area director and to the director on draft management plans for the active management area before they are promulgated by the director.
- 2. Keep the minutes of its meetings and all records, reports and other information relative to its work and programs in permanent form indexed and systematically filed.
- 3. Elect from its members a chairman and vice-chairman for terms of two years expiring on the third Monday of January of each even numbered year.
- 4. Designate the person or persons who shall execute all documents and instruments on behalf of the council.
- 5. Manifest and record its actions by motion, resolution or other appropriate means.
- 6. Make a complete record of its proceedings which shall be open to public inspection during regular business hours in the branch office of the department in the active management area.
- 7. Provide comment to the Arizona water banking authority with regard to draft plans for additional storage facilities and draft plans of operation in accordance with sections 45-2453 and 45-2456."



### Management Plan Promulgation





#### **GUAC** Recommendation

ADWR is seeking a recommendation from the GUAC on the promulgation of the draft Tucson AMA Fifth Management Plan.



### Discussion & Questions?

Natalie Mast nlmast@azwater.gov **Management Plans Work Group:** 

new.azwater.gov/5MP

**Concepts page:** https://new.azwater.gov/5MP/plans-concepts

**Full Text of Management Plans:** 

new.azwater.gov/ama/management-plans

For questions about meetings or to submit comments:

managementplans@azwater.gov



#### **Dashboard Presentations**

## Mining Proposal

#### **Meeting Agenda**

- 1. Call to Order Welcome & Introductions Chair
- 2. Webinar Logistics Kennedy Shepard, ADWR
- GUAC Webpage Updates Kennedy Shepard, ADWR
- 4. Election of Officers GUAC Members
  GUAC Members will elect Chair and Vice-Chair to serve a two-year term
- 5. Colorado River Update *James Heffner*, ADWR James will provide an update on Colorado River hydrology
- 6. GWAICC Update Jenna Norris, ADWR

  Jenna will provide the council with an update on GWAICC activities and progress
- 7. Tucson AMA Draft 5<sup>th</sup> Management Plan
  - a. Draft 5<sup>th</sup> Management Plan Presentation Natalie Mast
  - b. AMA Sector Data Dashboards AMA Staff
  - c. Mining Proposal Sandy Fabritz
  - d. GUAC Discussion and Recommendation to Director Council
- 8. Call to the Council Council
- 9. Call to the Public Chair
- 10. Adjournment Chair



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